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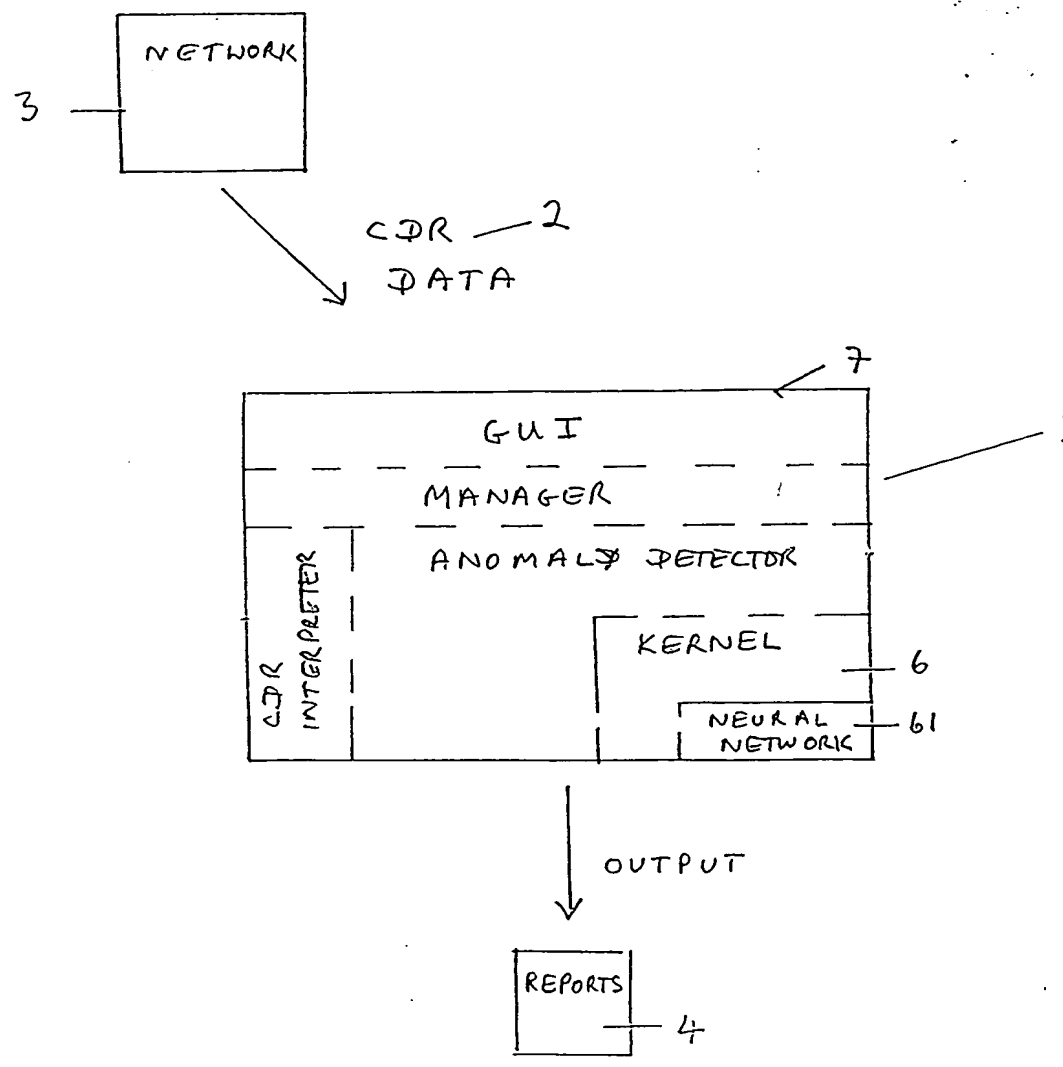


FIGURE 1

158070-1988880
070397

Anomaly Detection Applications

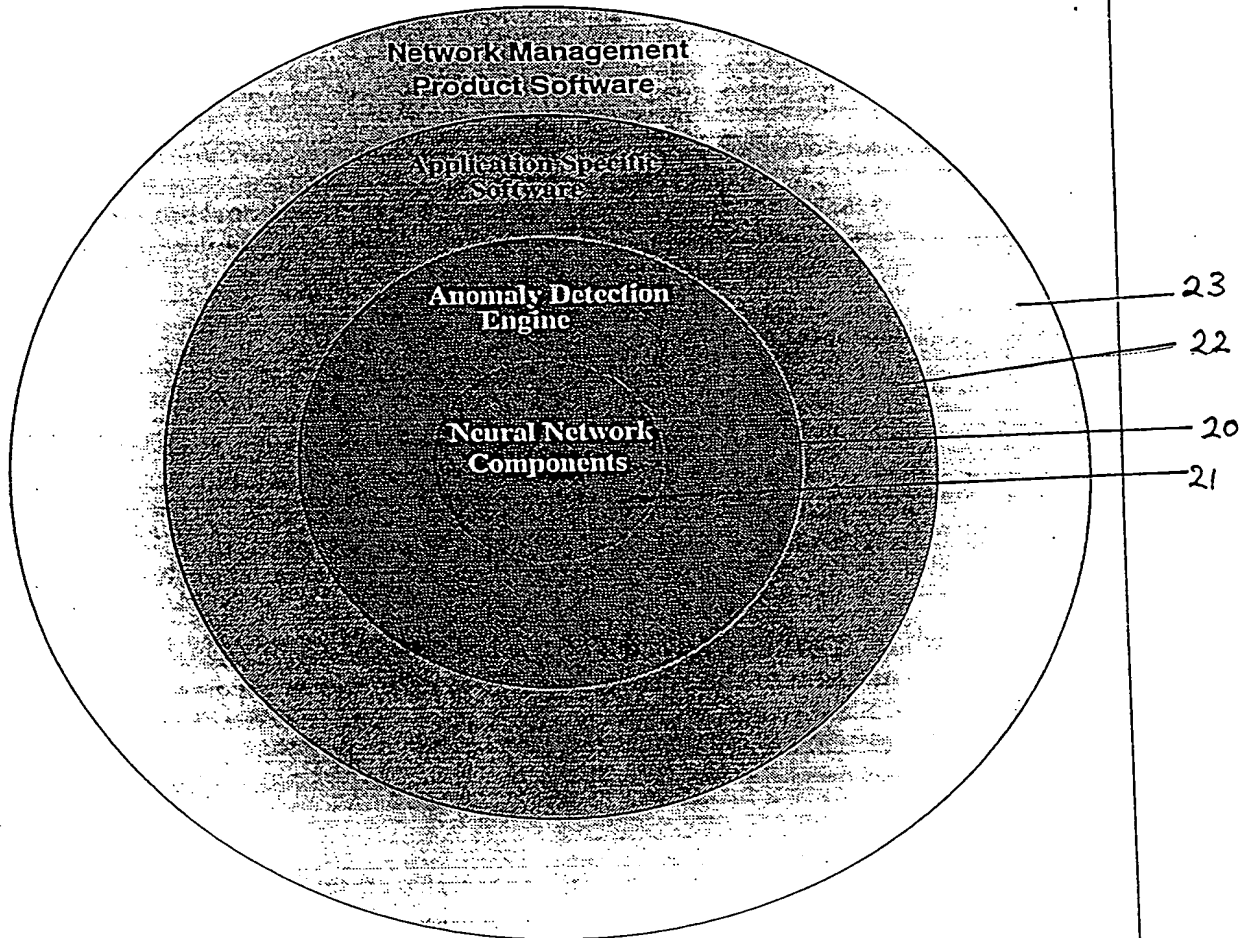


FIGURE 2.

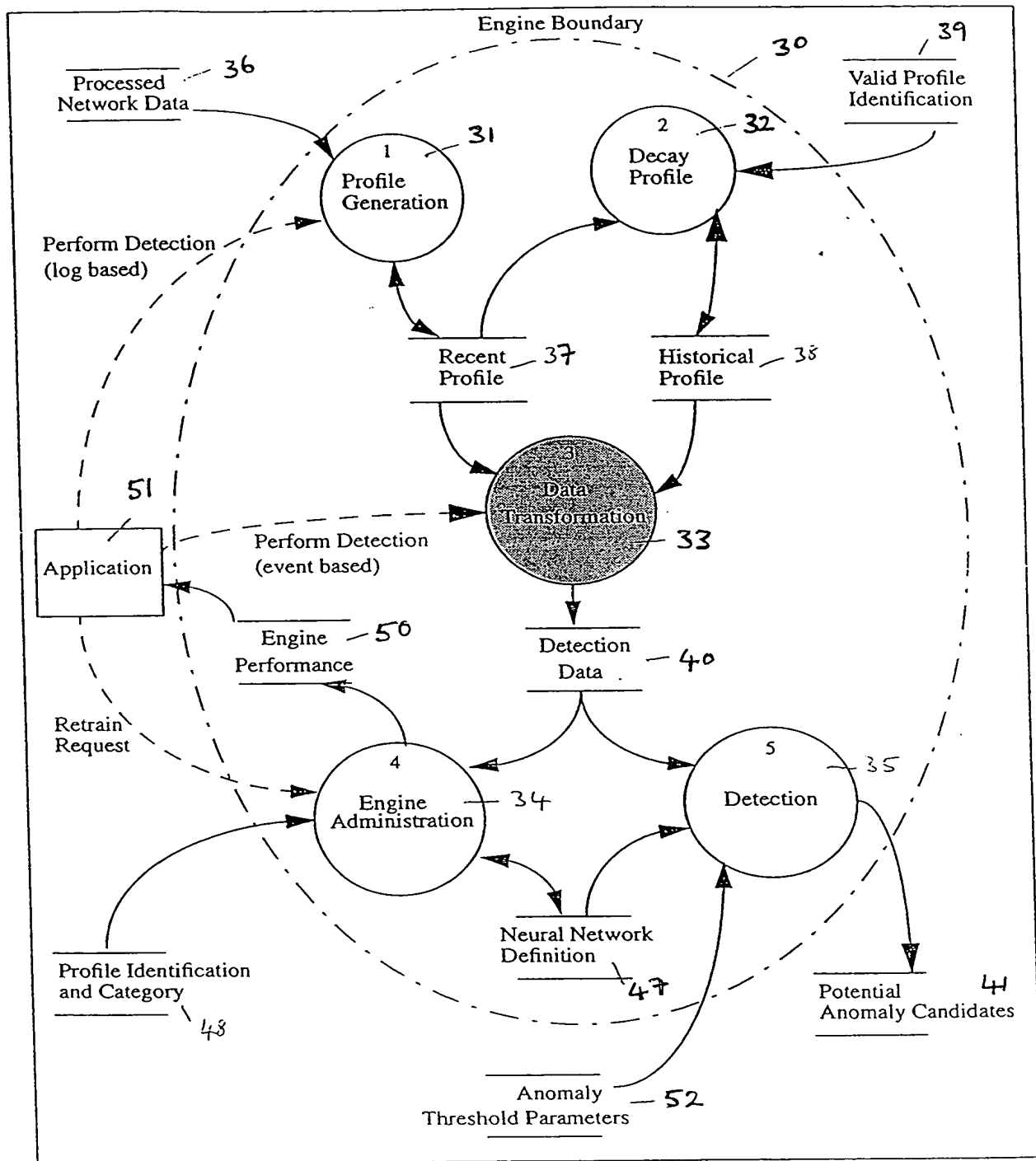


FIGURE 3

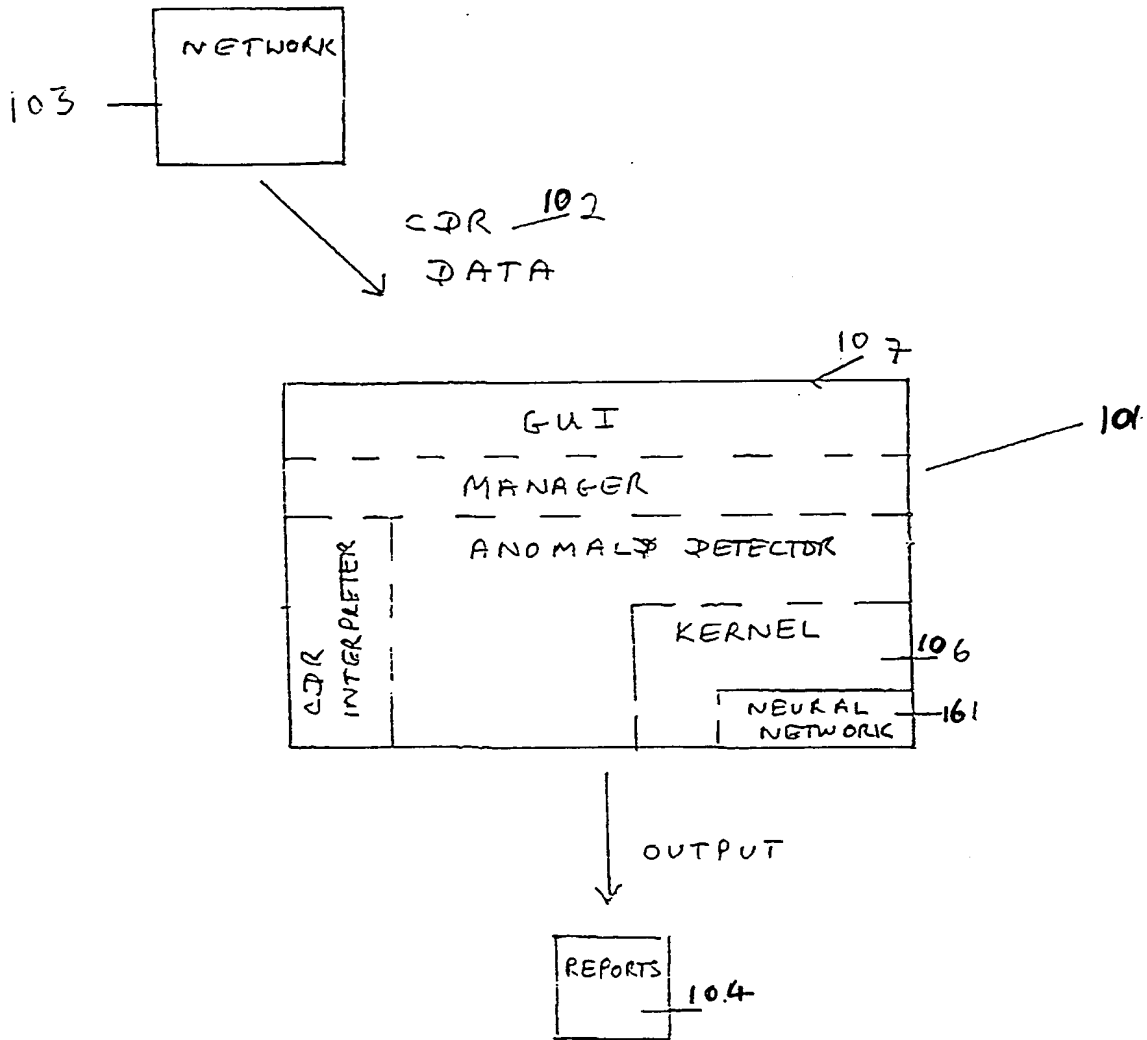


FIGURE 5

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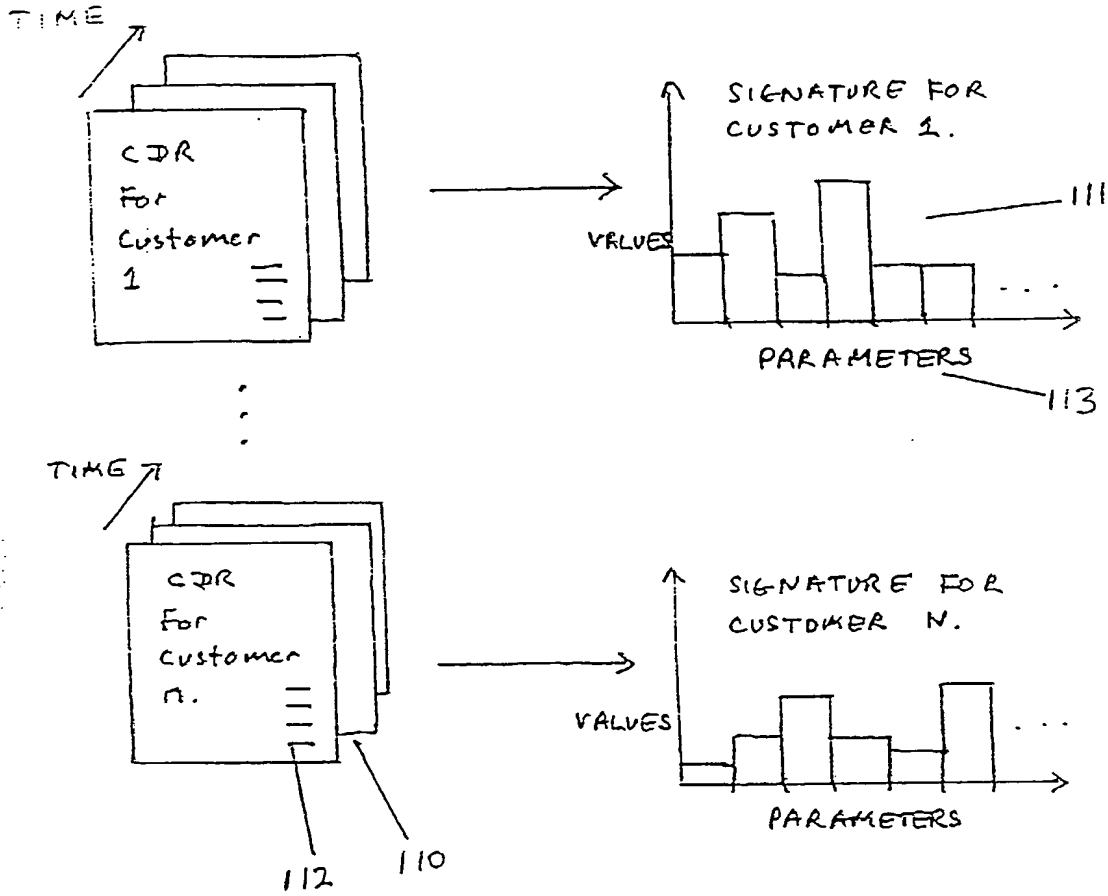


FIGURE 6

2025 RELEASE UNDER E.O. 14176

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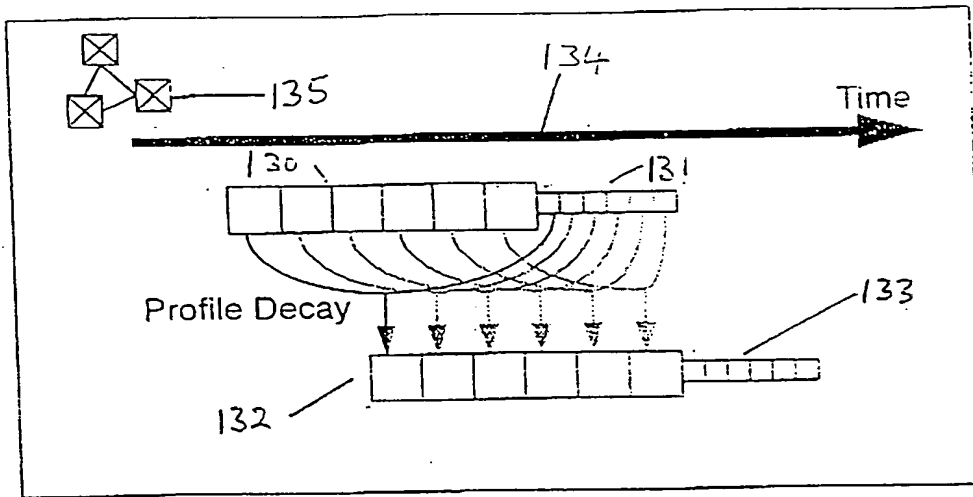


FIGURE 7

Profile Decay

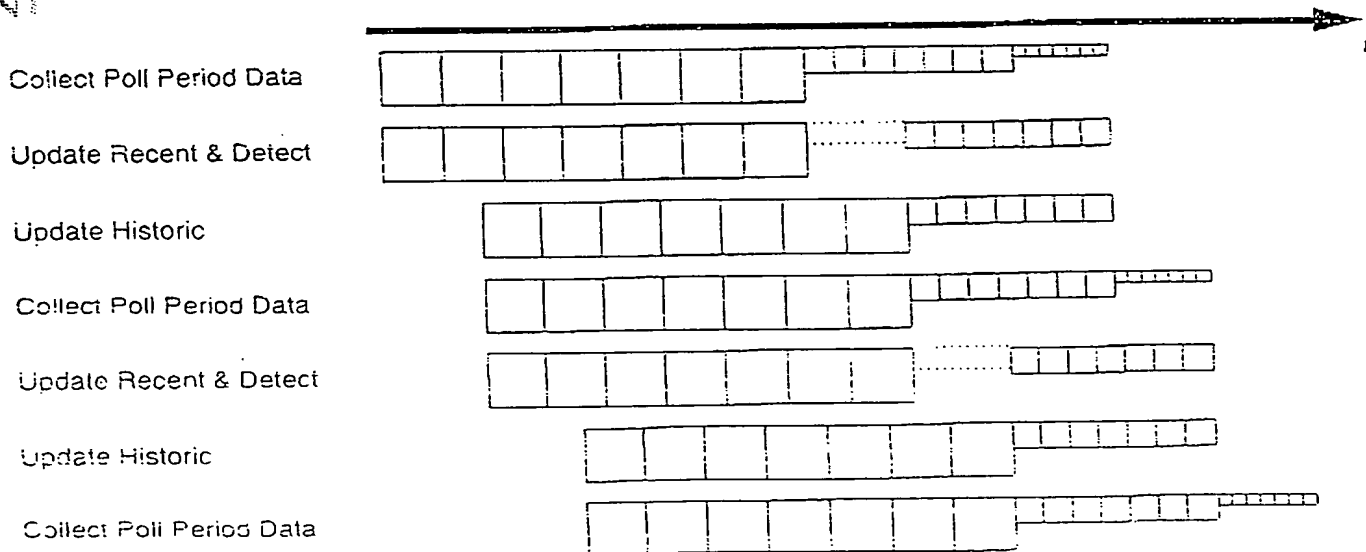


FIGURE 8


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graph TD
    A[Interpret Call Detail Record] --> B[Interpret Customer]
    A --> C[...]
    B --> D[CDR 46]
    B --> E[...]
  
```

Element Name	Position (From 0)	Format
CALL_START_DT	9	YYYY-MM-DD HH:MM:SS.ss
LONG_DUR_CALL_IND	12	1 — First 6 hours 2 — Middle 3 — Completed
SERVICE_FEATURE_CODE	15	00 — Other 10 — Three way calling 12 — Call forwarding 14 — Call forward busy
ORIG_TELNO	16	CHAR(24)
CALL_DURATION	20	MMMMSS
ORIG_NNG	22	DDDD
DEST_NNG	23	DDDD
DAY_OF_WEEK	24	1-7 (Mon=1, Sun=7)

FIGURE 10

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Attribute name	Type
AccountNumber	String
CallForward	Boolean
LongCall	Boolean
Duration	Integer
Destination	Enum {Local, National, International}
171 — DayOfWeek	Enum {Monday, Tuesday,, Sunday}
172 — CallTime	Time

FIGURE 11

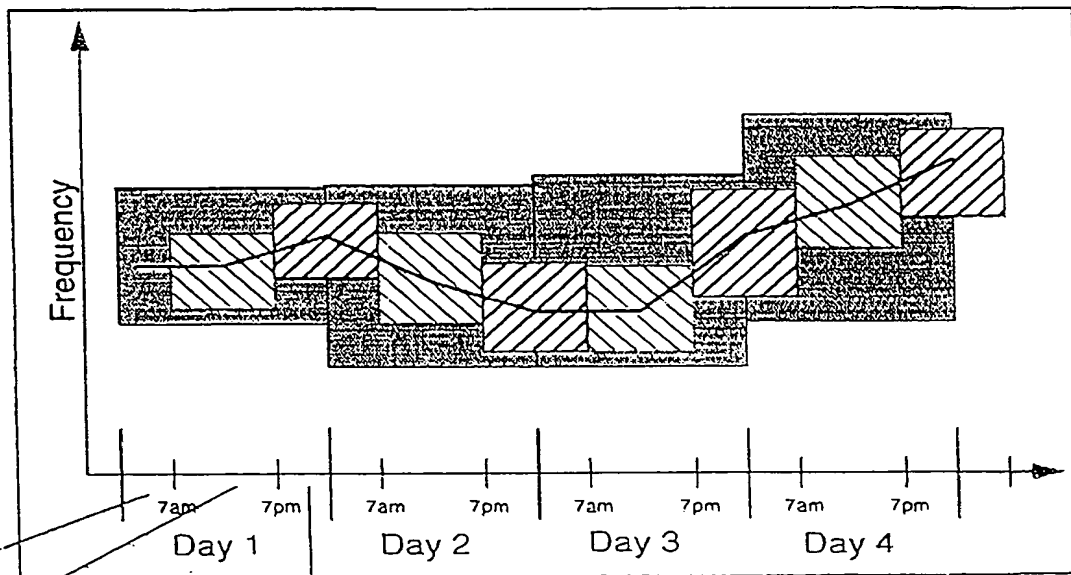


FIGURE 13

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Profile Field No.	Attribute	Coverage Time Period	Type	Range
1	% Local		float	0.00—1.00
2	% National		float	0.00—1.00
3	% International		float	0.00—1.00
4	Total Number of Calls		float	N/A
5	Average Duration		float (number of seconds)	N/A
6	Number of Long Calls		float	N/A
7	No. of Call Forwards		float	N/A
8	% Monday	00:00:00—23:59:59	float	0.00—1.00
9	% Tuesday	00:00:00—23:59:59	float	0.00—1.00
10	% Wednesday	00:00:00—23:59:59	float	0.00—1.00
11	% Thursday	00:00:00—23:59:59	float	0.00—1.00
12	% Friday	00:00:00—23:59:59	float	0.00—1.00
13	% Saturday	00:00:00—23:59:59	float	0.00—1.00
14	% Sunday	00:00:00—23:59:59	float	0.00—1.00
15	% 7am -> 7pm Monday	07:00:01—19:00:00	float	0.00—1.00
16	% 7pm Monday -> 7am Tuesday	19:00:01—07:00:00	float	0.00—1.00
17	% 7am -> 7pm Tuesday	07:00:01—19:00:00	float	0.00—1.00
18	% 7pm Tuesday -> 7am Wednesday	19:00:01—07:00:00	float	0.00—1.00
19	% 7am -> 7pm Wednesday	07:00:01—19:00:00	float	0.00—1.00
20	% 7pm Wednesday -> 7am Thursday	19:00:01—07:00:00	float	0.00—1.00
21	% 7am -> 7pm Thursday	07:00:01—19:00:00	float	0.00—1.00
22	% 7pm Thursday -> 7am Friday	19:00:01—07:00:00	float	0.00—1.00
23	% 7am -> 7pm Friday	07:00:01—19:00:00	float	0.00—1.00
24	% 7pm Friday -> 7am Saturday	19:00:01—07:00:00	float	0.00—1.00
25	% 7am -> 7pm Saturday	07:00:01—19:00:00	float	0.00—1.00
26	% 7pm Monday -> 7am Sunday	19:00:01—07:00:00	float	0.00—1.00
27	% 7am -> 7pm Sunday	07:00:01—19:00:00	float	0.00—1.00
28	% 7pm Monday -> 7am Monday	19:00:01—07:00:00	float	0.00—1.00

FIGURE 12

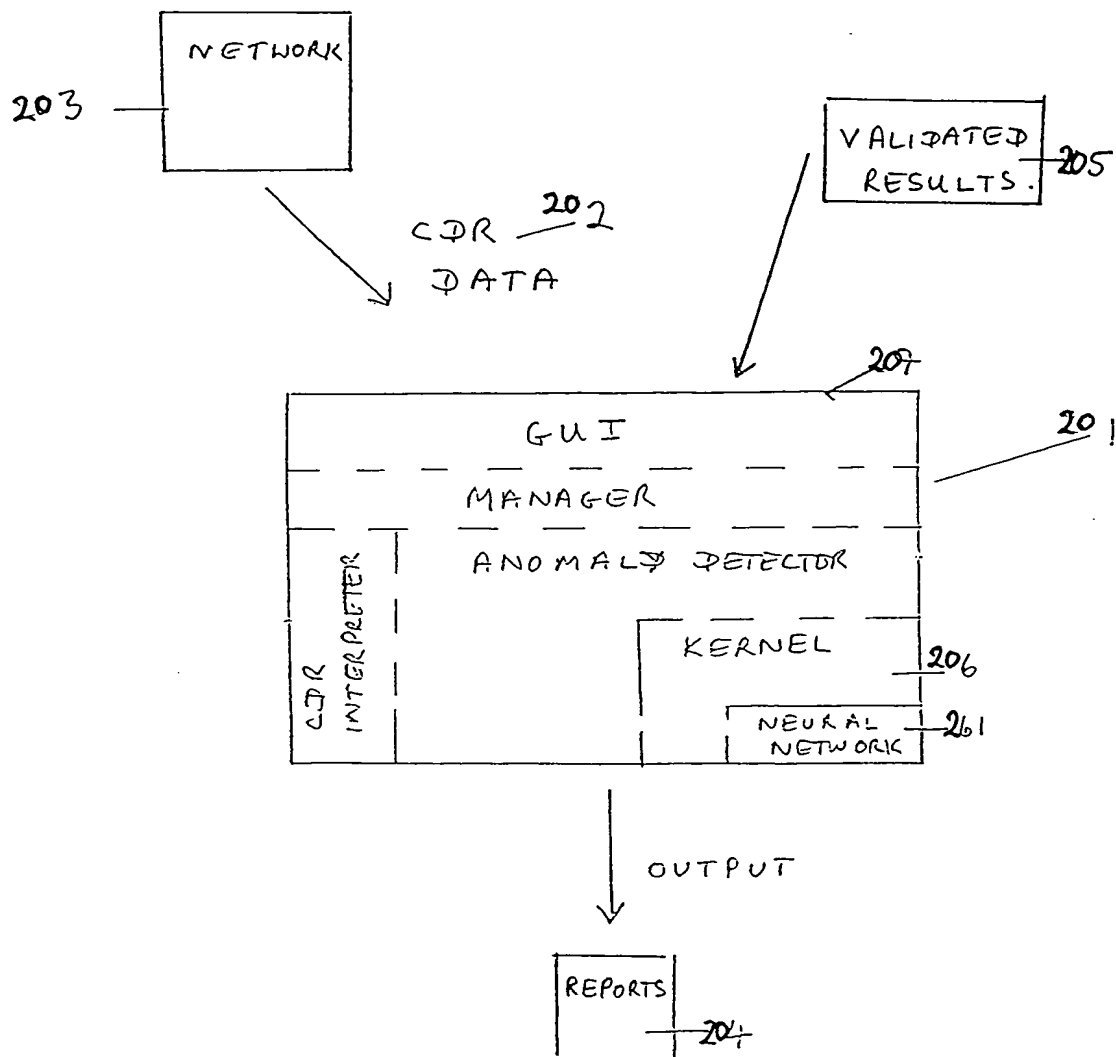


FIGURE 14

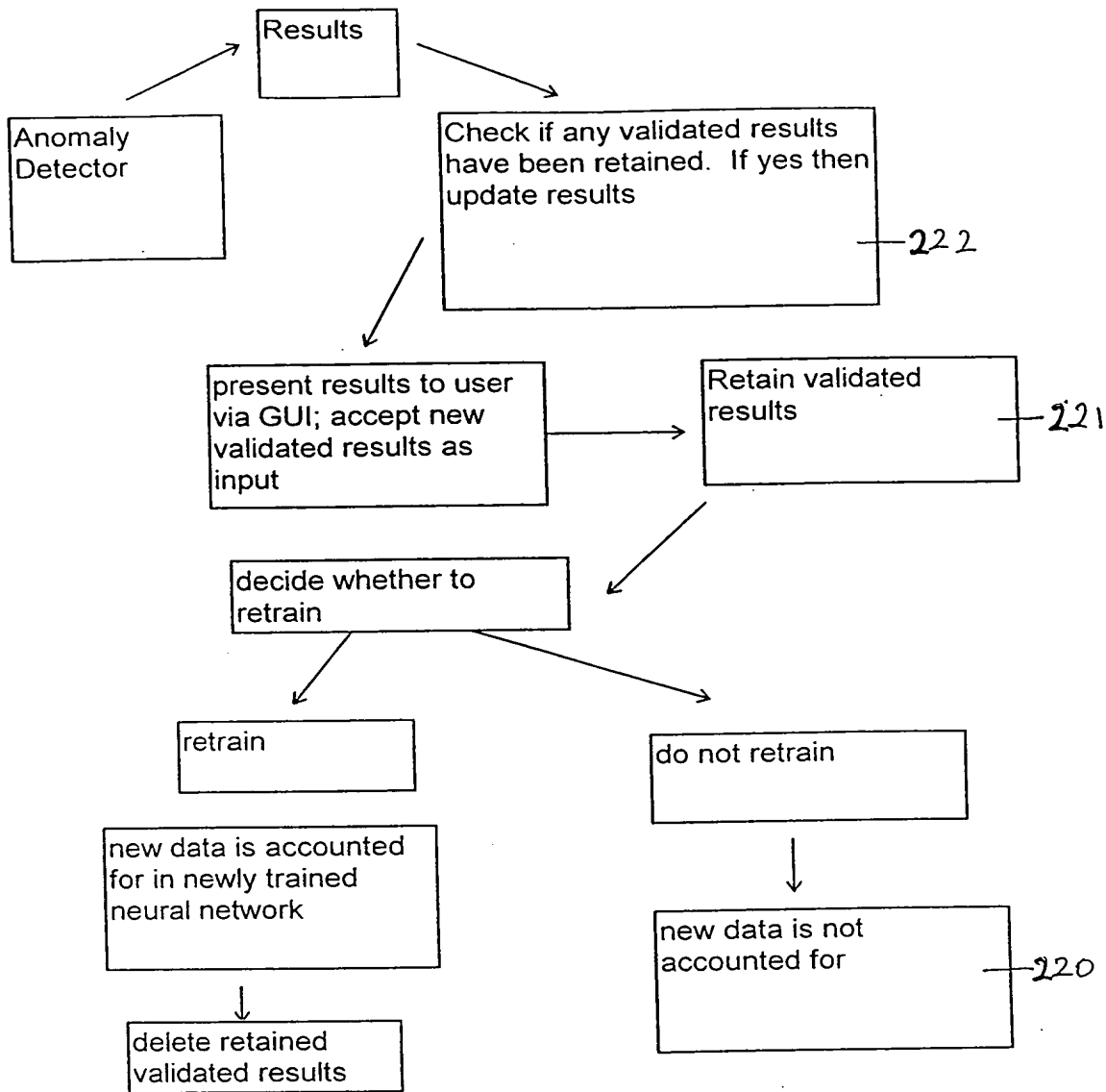
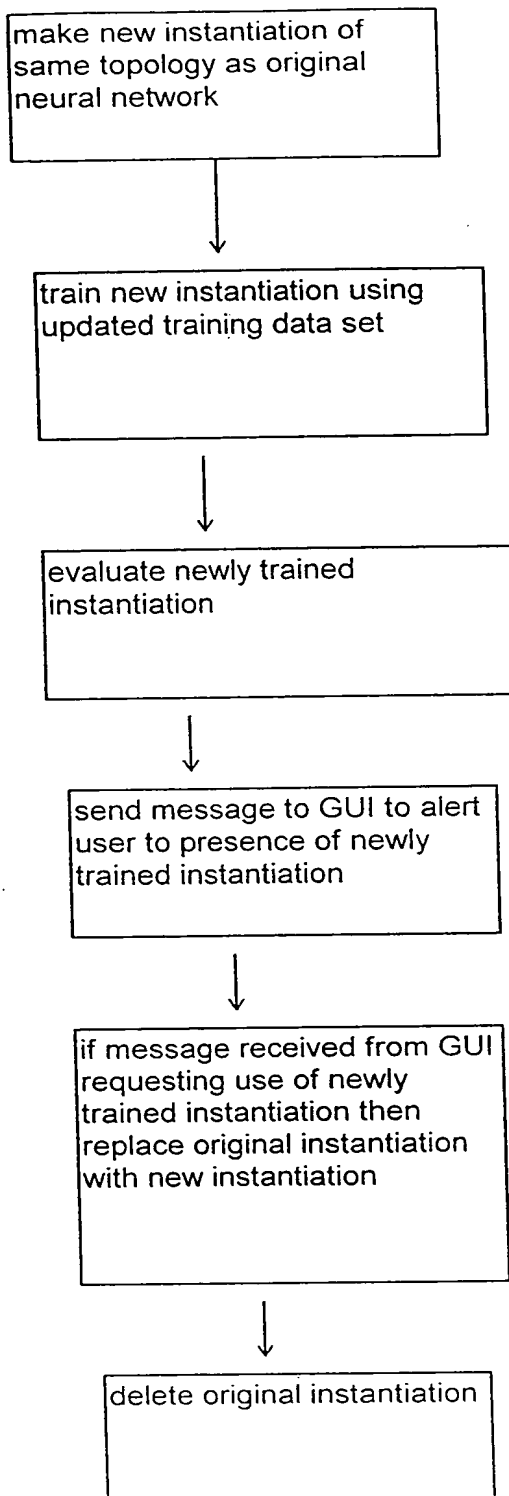


FIGURE 15



FIGURE

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

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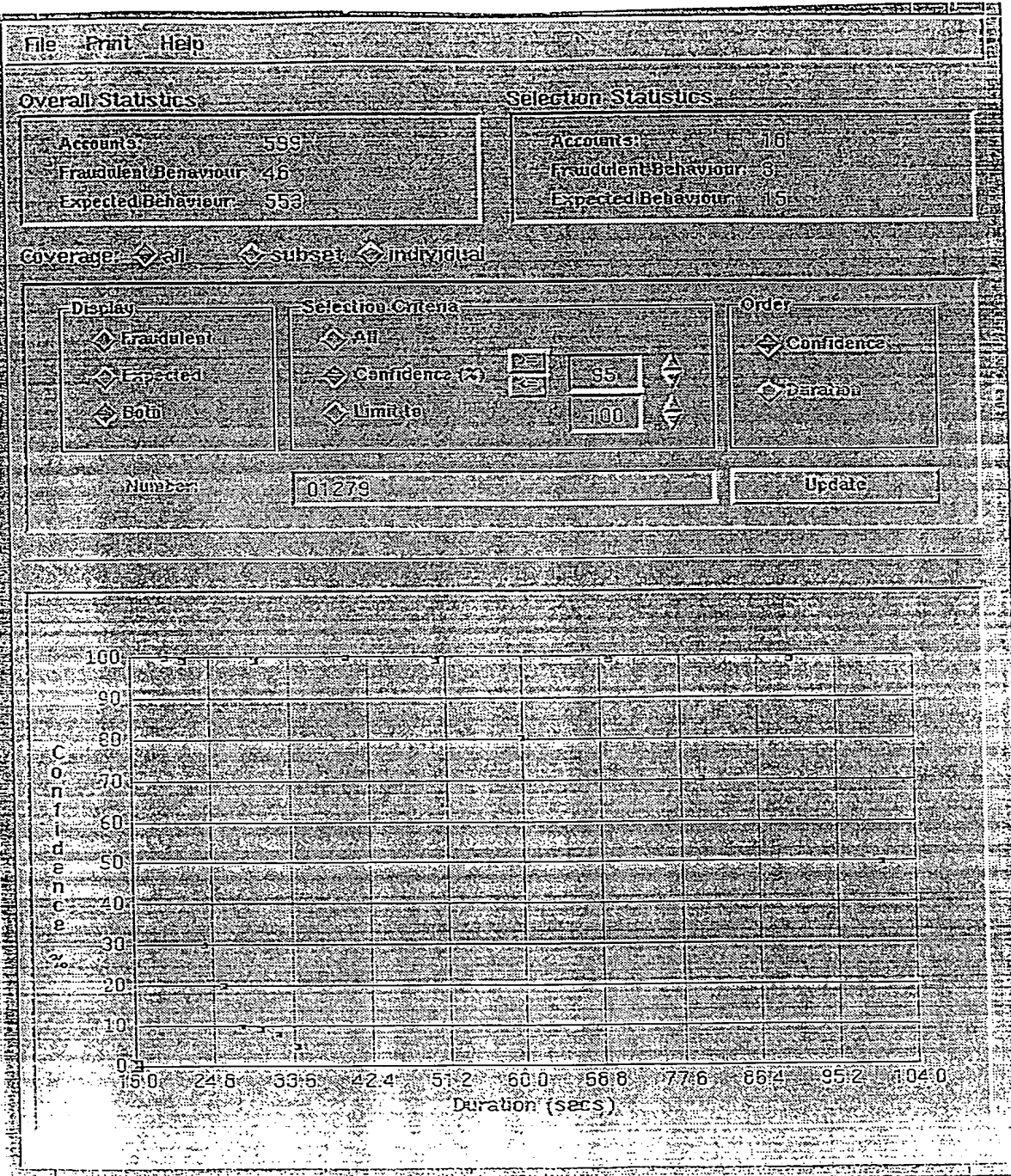


FIGURE 18